

INTERNATIONAL SEARCH REPORT

International Application No

T/IB2004/000938

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B20/22 G11B7/005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 134 211 A (MIYANABE SHOGO ET AL) 17 October 2000 (2000-10-17) cited in the application the whole document	1-8
A	----- EP 0 393 719 A (NIPPON ELECTRIC CO) 24 October 1990 (1990-10-24) column 1, line 1 - column 8, line 31 figures 1-4	1-3,6
A	----- EP 1 241 669 A (SONY CORP ; PIONEER CORP (JP)) 18 September 2002 (2002-09-18) column 9, line 41 - column 11, line 25 column 18, line 33 - column 20, line 19 figures 3A,3B,12-18 ----- -/--	1-3,6

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

20 July 2004

Date of mailing of the international search report

27/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Hermes, L

INTERNATIONAL SEARCH REPORT

International Application No

T/IB2004/000938

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 375 342 A (MATSUSHITA ELECTRIC IND CO LTD) 27 June 1990 (1990-06-27) page 4, line 11 - page 7, line 33 -----	1-3,6
A	RYUICHI KATAYAMA ET AL: "MULTI-BEAM OPTICAL DISK DRIVE FOR HIGH DATA TRANSFER RATE SYSTEMS" JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 31, no. 2B, 1 February 1992 (1992-02-01), pages 630-634, XP000323491 ISSN: 0021-4922 page 634, column 1, line 1 - column 2, line 13; figures 13-15 -----	1-3,6
A	TOMITA Y ET AL: "25 GB read-only disk system using the two-dimensional equalizer" ISOM. INTERNATIONAL SYMPOSIUM ON OPTICAL MEMORY, XX, XX, vol. 40, no. 3B, 5 September 2000 (2000-09-05), pages 1716-1722, XP002251624 page 1717, column 1, lines 1-24; figures 1-3 -----	1-3,6
A	EP 0 604 048 A (IBM) 29 June 1994 (1994-06-29) the whole document -----	1-3,6
A	US 6 111 710 A (FEYH GERMAN S ET AL) 29 August 2000 (2000-08-29) abstract -----	4,5,7,8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

. 5T/IB2004/000938

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6134211	A	17-10-2000	JP	3526185 B2	10-05-2004
			JP	11110712 A	23-04-1999
EP 0393719	A	24-10-1990	JP	2281423 A	19-11-1990
			JP	2586641 B2	05-03-1997
			JP	2600911 B2	16-04-1997
			JP	3040225 A	21-02-1991
			DE	69020624 D1	10-08-1995
			DE	69020624 T2	21-12-1995
			EP	0393719 A2	24-10-1990
			US	5181161 A	19-01-1993
EP 1241669	A	18-09-2002	JP	2002269753 A	20-09-2002
			EP	1241669 A2	18-09-2002
			US	2002131352 A1	19-09-2002
EP 0375342	A	27-06-1990	DE	68921173 D1	23-03-1995
			DE	68921173 T2	21-09-1995
			EP	0375342 A2	27-06-1990
			JP	2257474 A	18-10-1990
			KR	9302879 B1	12-04-1993
			US	5166914 A	24-11-1992
EP 0604048	A	29-06-1994	US	5315284 A	24-05-1994
			CN	1109229 A ,B	27-09-1995
			EP	0604048 A2	29-06-1994
			JP	2802027 B2	21-09-1998
			JP	6215487 A	05-08-1994
			KR	155586 B1	15-12-1998
US 6111710	A	29-08-2000	NONE		